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A.A 28106G01

Instruction Manual

EZGO 50 Amp DC Fuse for 36 Volt Powerwise Charger

Model: Part # 28106G01 | Brand: A.A

1. Product Overview

This document provides essential information for the EZGO 50 Amp DC Fuse, Part # 28106G01. This fuse is specifically designed for use with Jacobsen and E-Z-GO Powerwise & Powerwise Total Charge III & IV Chargers. It serves as a critical protective component within the charging system.

The fuse was commonly used in EZGO Electric TXT & Medalist Carts manufactured between 1994 and 2008, as well as 36 Volt MPT/WH Vehicles from 2003 to the current models. Its primary function is to safeguard the charger components, particularly in instances where rectifier diodes may fail, preventing further damage to the system.

2. Product Image



Image of the EZGO 50 Amp DC Fuse. This component features a black central body with "50A" clearly marked, indicating its amperage rating. It has two flat, metallic terminals extending from either end, each with a pre-drilled hole for secure bolt-on installation within the electrical system.

3. Specifications

Specification	Value
AC Adapter Current	50 Amps
Brand	A.A
Voltage	36 Volts
Material	Copper
Mounting Type	Through-Hole Mount
UPC	701231042301
Manufacturer	Automotive Authority LLC
Color	copper
Item Package Dimensions L x W x H	4.57 x 4.29 x 0.2 inches

Specification	Value
Package Weight	0.01 Kilograms
Part Number	28106G01
ASIN	B07KGJR56W
Date First Available	November 13, 2018

4. Installation and Setup

The 50 Amp DC Fuse is a replacement part designed for specific Powerwise chargers. Proper installation is crucial for the safe and effective operation of your golf cart's charging system.

Safety Precautions:

- Always disconnect the charger from the AC power outlet and the golf cart's battery before attempting any installation or maintenance.
- Ensure the golf cart is turned off and the key is removed.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- If you are unsure about any step, consult a qualified technician.

Installation Steps:

1. Locate the existing fuse within your Powerwise charger. Refer to your charger's specific manual for the exact location.
2. Carefully remove the old fuse. Note its orientation and how it was connected.
3. Insert the new EZGO 50 Amp DC Fuse (Part # 28106G01) into the fuse holder, ensuring a secure and proper connection. The through-hole mount design requires bolting the terminals in place.
4. Verify that all connections are tight and secure.
5. Once the fuse is installed, reconnect the charger to the golf cart battery and then to the AC power outlet.

This fuse is a direct replacement for Part #28106G01 and 28106-G01.

5. Operation

The 50 Amp DC Fuse operates passively within the charger's electrical circuit. Its function is to act as a sacrificial device, designed to blow and break the circuit if the current flowing through it exceeds its rated capacity (50 Amps). This prevents overcurrent conditions that could damage more expensive and critical components of the Powerwise charger, such as the rectifier diodes.
When the charger is operating normally, the fuse allows current to pass through unimpeded. If an internal fault occurs, such as a short circuit or a diode failure, the fuse will open the circuit, protecting the system from further electrical damage.

6. Maintenance

Fuses are generally maintenance-free components. They are designed for a single-use protective function. Once a fuse blows, it must be replaced with a new one of the identical type and rating (50 Amp DC Fuse, Part # 28106G01).
Regular maintenance of the charger itself should include periodic inspection of all electrical connections to ensure they are clean, tight, and free from corrosion. While the fuse itself does not require cleaning, ensuring its mounting points are

free of debris can help maintain good electrical contact.

7. Troubleshooting

If your EZGO 50 Amp DC Fuse blows, it indicates an underlying issue within the Powerwise charger or the connected system. Replacing a blown fuse without addressing the root cause will likely result in the new fuse blowing again.

Common Cause of Fuse Blowing:

- **Rectifier Diode Failure:** The most common reason for this specific fuse to blow in Powerwise chargers is the failure of one or both of the charger's rectifier diodes. When a diode fails, it can create a short circuit or an excessive current draw, causing the fuse to blow as a protective measure.

Troubleshooting Steps:

1. **Verify Fuse Status:** Visually inspect the fuse. A blown fuse will typically show a broken internal wire or discoloration.
2. **Identify Root Cause:** Before replacing the fuse, it is highly recommended to diagnose the charger for faulty rectifier diodes or other internal electrical issues. This may require specialized tools like a multimeter and knowledge of electrical circuits.
3. **Professional Assistance:** If you are not comfortable diagnosing electrical issues, it is best to consult a qualified golf cart technician or an electrician specializing in charger repair.
4. **Replace Faulty Components:** Only after the underlying issue (e.g., failed diodes) has been resolved should you install a new 50 Amp DC Fuse.

Failure to address the root cause can lead to repeated fuse failures and potential damage to the charger or battery system.

8. Warranty and Support

For specific warranty information regarding your EZGO 50 Amp DC Fuse (Part # 28106G01), please refer to the documentation provided at the time of purchase or contact the seller directly. Warranty terms can vary based on the retailer and manufacturer.
If you require technical support or have questions not covered in this manual, please reach out to the manufacturer, Automotive Authority LLC, or the authorized dealer from whom you purchased the product. When contacting support, please have your product model number (28106G01) and purchase details readily available.

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